

C33 professional, 80mm lens and high speed Ektachrome film pushed to 400 ASA. Using the available light in the tank, Harrison exposed the film at *f*.2.8 at 1/8th of a second.

The autumn scenic on pages 2-3 was photographed around 5 p.m. on a clear day during the first week of October, 1968, at Waits River, Vermont, by Gene Ahrens. He used a 4x5 Linhof Super Technika with a 135mm Schneider-Kreutznach Symmar lens. Exposure was 1/10th of a second at *f*.20 on daylight Ektachrome.

The one year old red fox on the back cover was photographed in northern Benton County, Oregon, in March, 1969, by Robert B. Smith of Corvallis, Oregon. He used a Bronica camera with 135mm lens, Ektachrome X film and an electronic flash with two heads. Exposure was 1/50th of a second at *f*.22.

100,000 SNOWMOBILES IN MINNESOTA

Minnesota has more snowmobiles per capita than any state and only Michigan has more total ownership. Four states—Minnesota, Michigan, Wisconsin and New York—make up 55 percent of national sales.

MORE GARBAGE THAN EVER

About 350 million tons of residential and industrial garbage will be hauled away by 337,000 garbage men in the United States this year. And the average American accounts for 5.3 pounds of household trash every day. This enormous problem of disposal has led some cities to programs which a few decades ago would have been fantastic—San Francisco decided to ship 1,300 tons of garbage daily by rail to a dumping area 375 miles away in Lassen County.

WRIGHT, UDALL NAMED DIRECTORS

M. A. Wright, Chairman of the Board of Humble Oil and Refining Company, and Stewart L. Udall, Secretary of the Interior during the Kennedy-Johnson Administrations, have been elected to three-year terms on the National Wildlife Federation Board of Directors. Wright came up through the ranks and was elected Humble's chief executive in June, 1966 after beginning as an oil field roustabout. Udall is nationally recognized for putting vitality into the conservation movement during his years at the Department of the Interior.

Porcupine quill

frames, and the cupboards and furniture of cabins and cottages. Nothing short of death halts the damage, for the dim-witted porky understands neither threats nor property rights.

There are probably as many theories about how porcupines mate as there are about how baby possums get into the pouch. The simple truth is that the female is careful to keep her tail and quills out of the way, and copulation takes place in the conventional manner.

But there normality ceases. As a rule only one young is produced—in itself remarkable for a member of the prolific rodent family. What's more, this infant often weighs more than a pound, which is considerable for a mother weighing from twelve to twenty pounds. A black bear weighs only half as much at birth. As you might imagine, the newborn porky is well developed. Its eyes are open, its hair is dark and thick, its quills are fully formed and up to an inch in length. The latter are soft at birth, but within an hour or two have hardened to become the formidable weapons for which all porcupines are respected.



Tip (enlarged)



On the defensive



Cast aluminum skillet gnawed by porcupines

ACTIVITIES

Christmas Tree for Birds	Dec-Jan 25
Snowmobiling—Winter Fun	Dec-Jan 42
Camping the Wild Way	Apr-May 34
Trout Flies	Apr-May 43
Outward Bound Adventures	Jun-Jul 12
Trails Across America	Jun-Jul 21
Nature Photograph Exhibit	Aug-Sep 36
Wayside Treasures	Aug-Sep 43

ADVENTURE

Lewis & Clark Expedition	Feb-Mar 20
Down, Down, Down	Oct-Nov 34

BIRDS

Peterson's Penguins	Dec-Jan 50
Buzzards of Hinckley	Feb-Mar 34
Feathers in Full Bloom	Apr-May 12
One Cool Curlew	Oct-Nov 31
North American Ducks	Oct-Nov 24
Baltimore Oriole	Oct-Nov 16

CONSERVATION

Saving Delaware's Wild Lands	Dec-Jan 26
Teaching Johnny Conservation?	Dec-Jan 18
After the Fire	Feb-Mar 36
Wildlife or Jetport?	Feb-Mar 18
33rd Annual Meeting	Apr-May 17
From the Brink of Extinction	Apr-May 20
Awards for Conservation	Jun-Jul 28
Man Fools His Environment	Jun-Jul 18
Public Rights vs. Stockmen	Jun-Jul 40
Our National EQ	Aug-Sep 3
Point of View: DDT	Aug-Sep 48
Face of Starvation	Oct-Nov 4

INSPIRATION

Just at Sunset	Dec-Jan 36
Quiet Moments	Dec-Jan 2
The Hidden Forest	Oct-Nov 40

MAMMALS

Captivating Rogue	Dec-Jan 40
Days of Fox Watching	Dec-Jan 13
Lonely Herd	Dec-Jan 20
Emperor of the Floes	Feb-Mar 42
Peccaries	Feb-Mar 14
Cougar! Cougar!	Apr-May 14
Timber Titan	Jun-Jul 4
America's Rarest Mammal	Aug-Sep 14
Pack Rat	Aug-Sep 22
Manatee	Oct-Nov 38

NATURAL HISTORY

First Link in Chain of Life	Dec-Jan 54
Long, Hard, Cold Winter	Dec-Jan 30
Dwellers of Forest Floor	Apr-May 50
Nature's Self-Made Widow	Apr-May 16
Ocean's Riches	Apr-May 4
Many Voices of Life	Jun-Jul 34
Those First Precarious Days	Jun-Jul 10
Dangerous Creatures of Deep	Aug-Sep 50
Death Trap of the Ages	Aug-Sep 24
Song of an August Night	Aug-Sep 32
Amazing Spider Woman	Oct-Nov 12

PEOPLE

Don Eckelberry	Dec-Jan 58
Man Who Reads Signals	Feb-Mar 4
World of Ario Gatti	Feb-Mar 9
John Wesley Powell	Apr-May 48
Hickel: New Conservation	Jun-Jul 8
Hall of Fame: Mather	Oct-Nov 10

PLACES

Alaska	Apr-May 24
Waters of the West	Jun-Jul 42
Touch and See	Oct-Nov 18

PLANT LIFE

Skunk Cabbage	Feb-Mar 40
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